



NOTES

1. DESIGN WAVELENGTH: 10.6  $\mu\text{m}$
2. OPERATION WAVELENGTH: 4.5  $\mu\text{m}$ -7.5  $\mu\text{m}$
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE:  $\pm 0.1$  mm
5. FOCAL LENGTH:  $f=500.0$  mm  $\pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=499.1$  mm
7. CLEAR APERTURE:  $>90\%$ CA
8. SURFACE QUALITY(S/D)(S1,S2): 40/20
9. SURFACE FLATNESS(S1):  $\lambda/2 @ 632.8$  nm
10. SURFACE POWER(S2):  $3\lambda/2 @ 632.8$  nm
11. SURFACE IRREGULARITY(S2):  $\lambda/4 @ 632.8$  nm
12. CENTRATION:  $<3$  arcmin
13. CHAMFER:  $<0.2$  mm,  $45^\circ$
14. COATING(S1S2):  $T_{\text{avg}} \geq 97\%$ ,  $T_{\text{abs}} \geq 94\%$ ,  $R_{\text{avg}} \leq 1\%$ ,  $R_{\text{abs}} \leq 2\%$  @ 4.5  $\mu\text{m}$ -7.5  $\mu\text{m}$

	PART DESCRIPTION	MATERIAL
①	SM1-8A	ANODIZED ALUMINIUM
②	CX90621-E2	ZNSE
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION				<b>LBTEK</b>					
		NAME		DATE		MCX90621-E2			
DRAWN		BSHU		Aug./12th/24		ZNSE, D=25.4 mm, f=500.0 mm PLANO CONVEX LENS AR. 4.5 $\mu\text{m}$ -7.5 $\mu\text{m}$			
APPROVAL		WCHENG		Aug./12th/24		MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES						ZnSe	18.94g	2:1	A